Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-01-09-26** **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 11-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

AE

AE-I
A.E.E

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-09-26** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 11-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

A.E.E

CIVIL PRO Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-09-26 **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

A.E.E

CIVIL Pro Sig Date BANGALORE

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2019

Lab ID	:	CP-2020-01-09-26
Project Name	:	Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/163/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.57 X 149.20 X 151.67	22317	8.546	406.6	18.2	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.40 X 149.20 X 149.04	22440	8.900	405.5	18.1	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.31 X 150.80 X 151.56	22516	8.152	422.6	18.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

AE-1 A.E.E

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-09-26** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.52 X 149.60 X 150.01	22369	8.546	423.6	18.9	18.7
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.49 X 151.28 X 151.67	22614	8.900	416.7	18.4	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.32 X 150.13 X 151.78	22718	8.152	427.8	18.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

CIVIL Pro Sig Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26

Date: 30/11/2019

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.59 X 150.53 X 150.04	22819	8.546	414.2	18.1	18.3
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.29 X 151.44 X 151.85	22760	8.900	415.2	18.2	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.36 X 149.29 X 149.13	22299	8.152	413.7	18.6	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

CIVIL Pro Sig. Date. BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-09-26**

Date: 24/12/2019

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	26/11/2019	24/12/2019	150.28 X 150.63 X 149.18	22637	8.831	537.6	23.8	23.3
2	Culvert Concrete	M20	26/11/2019	24/12/2019	151.67 X 149.51 X 149.19	22675	8.885	507.7	22.4	
3	Culvert Concrete	M20	26/11/2019	24/12/2019	150.24 X 149.45 X 151.94	22454	8.849	531.5	23.7	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-I
A.E.E

Page 1/1
****End of Report****

CIVIL Pro Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-09-26** **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.38 X 151.75 X 151.22	22972	8.964	585.5	25.5	25.6
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.52 X 150.90 X 149.86	22712	8.165	601.5	26.5	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.03 X 151.78 X 151.79	22771	8.609	563.8	24.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-1 A.E.E

Page 1/1
****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.26 X 150.40 X 150.14	22600	8.964	581.7	25.7	25.7
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.22 X 149.66 X 151.53	22632	8.165	610.5	27.0	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	149.32 X 149.82 X 151.14	22371	8.609	546.8	24.4	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE

AE-1

A.E.E

CIVIL Pro Sig Date BANGALORE

Page 1/1

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.89 X 149.62 X 149.08	22575	8.964	583.5	25.8	25.7
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.72 X 150.91 X 150.36	22895	8.165	607.1	26.5	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.81 X 151.75 X 149.52	23038	8.609	566.6	24.6	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

CIVIL Pro Sig Date BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.18 X 150.84 X 151.62	22804	8.964	576.2	25.3	25.4
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	149.13 X 151.04 X 150.61	22523	8.165	587.5	26.1	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.39 X 151.75 X 150.93	22974	8.609	569.8	24.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

A.E.E

CIVIL Pro Sig. Date. BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.80 X 149.45 X 151.87	22538	8.964	584.8	25.9	25.6
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.19 X 151.82 X 150.17	22801	8.165	609.6	26.7	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.04 X 149.44 X 150.56	22571	8.609	542.8	24.0	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 10/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.09 X 149.92 X 151.85	22652	8.964	585.4	25.8	25.4
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.61 X 150.17 X 150.08	22617	8.165	594.3	26.3	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.77 X 150.71 X 150.92	22873	8.609	549.6	24.0	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2020-01-09-26 **Date: 10/12/2019**

roject Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

gency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

ustomer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

ate of Receipt : 05-12-19

ustomer ID : Cement Concrete Pavement

ample Type /Size : 150X150X150 mm

ample grade/Age : M30 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.92 X 150.89 X 149.51	22622	8.964	566.4	25.0	25.5
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.95 X 150.44 X 151.84	22559	8.165	605.6	26.8	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.75 X 151.09 X 150.22	22778	8.609	558.0	24.5	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

CIVIL Pro Sig Date BANGALORE

AE

AE-1 A.E.E

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/12/2019

Lab ID : CP-2020-01-09-26

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.40 X 149.76 X 149.52	22375	8.964	572.2	25.6	25.3
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.68 X 151.05 X 150.01	22760	8.165	594.8	26.1	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.45 X 150.78 X 151.50	22684	8.609	551.0	24.3	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

Page 1/1
****End of Report****

A.E.E

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 10/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.17 X 151.88 X 150.58	22960	8.964	582.6	25.4	25.5
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.18 X 150.57 X 149.13	22612	8.165	595.2	26.3	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	152.00 X 150.81 X 149.88	22922	8.609	565.8	24.7	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

A.E.E

CIVIL Pro Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-26 **Date: 10/12/2019**

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.36 X 151.29 X 151.72	22596	8.964	566.1	25.1	25.2
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.89 X 149.27 X 150.25	22374	8.165	588.5	26.3	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.96 X 151.50 X 150.58	22870	8.609	554.4	24.2	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-I
A.E.E

Page 1/1
****End of Report****

CIVIL Pro Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/12/2019

Lab ID : CP-2020-01-09-26

Project Name : Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/163/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.46 X 149.55 X 151.25	22651	8.964	584.1	25.8	25.3
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.54 X 150.06 X 149.64	22741	8.165	592.3	26.0	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.78 X 149.85 X 151.49	22744	8.609	549.0	24.1	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

Page 1/1
****End of Report****

A.E.E

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2019

Lab ID	:	CP-2020-01-09-26
Project Name	:	Improvements to Roads and Drains at Jayamuni Badavane and Surrounding Areas in Ward No. 01 of Yelahanka Sub division
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/163/2019-20
Date of Receipt	:	05-12-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.08 X 151.76 X 151.39	22777	8.064	764.4	33.6	33.1
2	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.96 X 151.74 X 150.40	22756	8.064	731.5	32.1	
3	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.13 X 149.33 X 150.51	22419	8.240	752.7	33.6	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE

AE-I
A.E.E

CIVIL Pro
Sig.....
Date.....
BANGALORE

****End of Report****